

PLEATED STENT ASSEMBLY

ABSTRACT OF THE DISCLOSURE

The present invention is directed to a pleated medical device assembly, preferably a pleated stent assembly, comprising a tube co-pleated with a balloon to a delivery width suitable for intraluminal delivery. Because the tube of the present invention transitions between its original diameter and its delivery diameter by folding and unfolding, rather than by radial contraction and expansion, the wall of the tube of the present invention may be substantially non-expandable, and thus may be substantially solid. The pleated stent assembly of the present invention is particularly suited for the treatment of neurovascular aneurysms.